Maitrey Educational Society

Nagarjuna

Institute of Engineering, Technology & Management

(AICTE, DTE Approved & Affiliated to R.T.M. Nagpur University Nagpur)

Village Satnavri, Amravati Road, Nagpur 440023

Email: maitrey.ngp@gmail.com; Website: www.nietm.in; Phone No. 07118 322211, 12

College Code - 4192

National Assessment and Accreditation Council
AQAR 2021-22
NAACCriteria-1:Curricular aspects
1.2 Academic Flexibility

1.2.1	Number of Programs in which Choice Based Credit System (CBCS)/elective course system has been implemented

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Department of Mechanical Engineering

Sr.no	7th Semester Elective 1	8th Semester Elective II	8th Semester Elective III
1	Subject	Subject	Subject
	Industrial Robotics	Finite Element Method	AMT
3	**Automobile Engineering**	Industrial Fluid Power	Renewable energy systems
4	Power Plant Engineering	MIS	Mechanical Vibrations
5	Synthesis of Mechanisms	**Refrigeration & Air-Conditioning**	Advance I.C. Engine
6	Material Handling Systm	Stress Analysis	Tribology

Department of Electrical Engineering

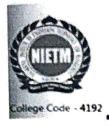| Sr.no	7th Semester Elective 1	8th Semester Elective 2	8th Semester Elective 3
1	IT and Its Applications in Power System Control	**Entrepreneurship Development**	Bio-medical Engineering
	Fuzzy Logic and Neural Networks	Digital Signal Processing	Advanced Microprocessor Peripherals
3	Flexible AC Transmission Systems	Power Quality	Power Semiconductor Based Electric Drives
4	Energy Management Audit	Electrical Distribution systm	**EHV AC and HVDC Transmission**

Department of Civil Engineering

Sr.no	7th Semester Elective 1	8th Semester Elective 2	8th Semester Elective 3
1	Advanced construction materials	Pre-stress concrete	Advanced geotechnical engineering
	Building services	**Pavement analysis and design**	Advanced concrete technology
3	Sustainable resource management in civil engineering	Watershed management	Advanced reinforced cement concrete design
4	Advanced hydraulics	Environmental management system	Advanced steel design
5	Air pollution and solid waste management	Water transmission and distribution system	**Water and waste water treatment**
6	Advanced traffic engineering	Geotechnical investigation & ground improvement technique	Applied remote sensing and GIS
7	Earthquake resistant design of structure	Advance engineering geology	-------
8	Advanced construction materials	Water power engineering	---------
9	Building services	Forensic civil engineering	---------
10	Sustainable resource management in civil engineering	Disaster response and management techniques	----------

Department of Computer Science Engineering

Sr.no	7th Sem Elective 1	7th Sem Elective 2	8th Sem Elective 3	8th Sem Elective 4
1	**TCP and IP**	Computational Geometry	Pattern Recognition	**Advance Wireless Sensor Network**
2	Advanced Computer Architecture	Mobile Computing	Soft Computing Techniques	Digital Image Processing
3	Big Data Analysis & BI	Real Time Operating System	Optimization Techniques	Natural Language Pro
4	Parallel & Network Algorithm	Software Architecture	**Clustering & Cloud Computing**	Digital Forensic
5	------------------	Software Architecture	-----------------------	-------------------------
6	-----------------------	Mainframe Technologies	-----------------------	-------------------------

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Academic Session 2021-22
Department of Mechanical Engineering

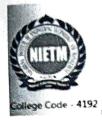| Sr.no	7th Semester Elective 1	8th Semester Elective II	8th Semester Elective III
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2	Industrial Robotics	Finite Element Method	**Advanced Manufacturing Techniques**
3	**Automobile Engineering**	Industrial Fluid Power	Renewable energy systems
4	Power Plant Engineering	MIS	Mechanical Vibrations
5	Synthesis of Mechanisms	**Refrigeration & Air-Conditioning**	Advance I.C. Engine
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